

NOTE ON CROPS OF MAHARASHTRA:

A number of crops are grown in kharif, Rabi and Summer seasons of Agricultural year in Maharashtra. Major crops of kharif season are Cotton, Soybean, Rice, Tur, Jowar, Bajra & Maize whereas of Rabi season are Jowar, Gram and Wheat. The main crops of Summer season are Groundnut, Rice, Maize & Sunflower. The details of average area, production & yield in Maharashtra vis a vis India are given in the table below:

Area: Lakh Ha, Production : Lakh Tonnes and Productivity : Kgs / Ha

Season	Crops	Maharashtra (2010-11 to 2014-15)			India (2010-11 to 2014-15)		
		A	P	Y	A	P	Y
Kharif	Rice	15.213	28.525	1875	392.666	577.86	2285
	Jowar	8.520	10.806	1268	25.3298	328.26	1126
	Bajra	8.511	7.550	887	81.6302	246.20	1172
	Ragi	1.222	1.498	1226	11.9894	310.27	1625
	Maize	7.406	20.114	2716	73.5016	704.28	2272
	Other Kharif Cereals	0.598	0.296	495	7.2494	125.68	592
	Tur	12.000	8.476	706	40.0498	191.71	725
	Moongbean	4.309	2.244	521			
	Urdbean	3.634	2.484	683			
	Other Kharif pulses	0.927	0.439	474	67.5394	135.74	483
	Groundnut	2.546	2.758	1084	43.7674	283.15	1323
	Sesamum	0.401	0.118	294	18.231	78.15	431
	Sunflower	0.434	0.205	473	2.6058	118.98	576
	Soybean	31.927	38.137	1195	106.356	342.73	1163
	Castorseed	0.134	0.044	329	11.4746	85.07	1604
	Nigerseed	0.336	0.095	282	3.1532	71.45	305
Other oilseed	0.000	0.000	0	0			
	Sub Total	98.117	123.790	1262	885.544	592.28	1676
	Cotton	41.290	66.994	276	120.338	126.16	489
	Sugarcane	9.783	851.959	87087	49.963	21999.68	70416
Rabi	Maize	1.620	3.953	2439	15.0172	614.98	4087
	Jowar	26.311	15.216	578	38.262	164.52	783
	Wheat	10.123	15.586	1540	301.735	466.76	3033
	Other Rabi cereals	0.305	0.287	941	6.8498	237.01	2475
	Gram	13.001	10.321	794	88.37	226.38	942
	Other Rabi Pulses	1.166	0.468	401	49.823	113.12	708
	Sesamum	0.018	0.006	308			
	Sunflower	0.692	0.394	569	4.8998	143.76	775
	Safflower	1.288	0.704	547	2.0606	137.67	590
	Linseed	0.271	0.096	353	3.1134	89.11	478
	Other & Mustered	0.100	0.033	332	63.2028	98.75	1170
	Sub Total	54.897	47.062	857	573.334	383.14	2132
Summer	Rice	0.338	0.819	2421	43.072	616.24	325
	Maize	0.247	0.345	1397			
	Groundnut	0.841	1.191	1417	8.4616	356.81	1913
	Sunflower	0.044	0.042	956	0		
	Sub Total	1.470	2.397	1631	51.5336	421.57	586
G Total		154.484	173.249	1121	1510.41	739.90	1812
G Total (Cot+ Sug+ Jute + Mesta)		205.557			1689.29		
	Jute & Mesta				8.5734	8.57	2342

Cotton : 170 Kg each bale, Jute & Mesta : 180 Kg each bale

To accelerate the production & productivity of major field crops, the Centrally Sponsored schemes of National Food Security Mission: Rice, Wheat, Pulses, Coarse Cereals, Commercial Crops (Cotton & Sugarcane), National Mission on Oilseeds & Oil Palm (NMOOP), & Rashtriya Krishi Vikas Yojana (Crop Diversification Programme (CDP) are under implementation in Maharashtra. The cost of implementation of these schemes are shared between Government of India & State Governments on 60:40 basis for general category states and 90:10 basis for North East & hilly states, but the Central Agencies are funded 100% by GOI.

Components & Pattern of Assistance under NFSM is presented in the table below.

Sl. No.	Name of Interventions	Pattern of Assistance	Crops in which admissible			
			Rice	Wheat	Pulses	Course Cereals
1.	Demonstration					
1.1	Improved package					
(i)	Rice/Wheat/Pulses	Rs.7500 per ha	✓	✓	✓	
(ii)	Coarse Cereals	Rs.5000 per ha				✓
1.2	Cropping system bases	Rs.12500 per ha	✓	✓	✓	
2.	Seed Distribution					
	High Yielding Varieties (Rice and Wheat)	i. Rs.10/- per kg. or 50% of the cost whichever is less	✓	✓		
	High Yield Varieties (Pulses)	ii. Rs.25/- per kg or 50% of the cost whichever is less			✓	
	Hybrids (Rice and Coarse Cereals)	Rs.50/- per kg or 50% of the cost whichever is less	✓			✓
	High Yield Varieties (Coarse Cereals)	Rs.15/- per kg or 50% of the cost whichever is less				✓
3.	Farm Machineries					
(i)	Conoweeder	Rs.600/- per machine	✓			
(ii)	Manual Sprayer: Knap sack sprayer/Foot operated sprayer	Rs.600/- per sprayer or 50% of the cost whichever is less	✓	✓	✓	
(iii)	Drum Seeder in rice	Rs.1500/- machine or 50% of the cost whichever is less	✓			
(iv)	Power sprayer	Rs.3000/- powered sprayer or 50% of the cost whichever is less	✓	✓	✓	
(v)	Manual Chaff Cutter	Rs.5000/- per machine or 75% cost whichever is less				
(vi)	Chiseller (Deep Ploughing)	Rs.8000/- per machine or 50% of the cost whichever is less		✓	✓	
(vii)	Sprinkler set	Rs.10000/- per hectare or 50% of the cost whichever is less		✓	✓	
(viii)	Pump Set up to 10 HP	Rs.10000/- per pump set or 50% of the cost whichever is less	✓	✓	✓	

Sl. No.	Name of Interventions	Pattern of Assistance	Crops in which admissible			
			Rice	Wheat	Pulses	Course Cereals
(ix)	Tractor Mounted Sprayer	Rs.10000/- per sprayer or 50% of cost whichever is less		✓	✓	
(x)	Seed Drill	Rs.15000/- per machine or 50% of cost whichever is less	✓	✓	✓	
(xi)	Zero till seed drill	Rs.15000/- per machine or 50% of cost whichever is less		✓	✓	
(xii)	Multi crop Planter	Rs.15000/- per machine or 50% cost whichever is less	✓	✓	✓	
(xiii)	Zero till multi crop Planter	Rs.15000/- per machine or 50% cost whichever is less	✓	✓	✓	
(xiv)	Ridge Furrow Planter	Rs.15000/- per machine or 50% cost whichever is less			✓	
(xv)	Power weeder	Rs.15000/- per machine or 50% cost whichever is less	✓	✓		
(xvi)	Water carrying pipes	Rs.25/- per meter or 50% of the cost whichever is less with maximum limit of 600 meters and costing Rs.15000/-	✓	✓	✓	
(xvii)	Mobile Rain gun	Rs.15000/- per mobile rain gun or 50% cost whichever is less		✓	✓	
(xviii)	Power driven chaff cutter	Rs.20000/- per machine or 75% cost whichever is less				
(xix)	Rotavator /turbo seeder	Rs.35000/- per machine or 50% of cost whichever is less	✓	✓	✓	
(xx)	Paddy Thresher/Multi crop thresher	Rs.40000/- per machine or 50% of the cost whichever is less	✓	✓	✓	
(xxi)	Laser Land Leveler	Rs.1.50 lakh per machine to a Group of 10 Farmers	✓	✓	✓	
(xxii)	Self Propelled Paddy Transplanter	Rs.75000/- per machine or 50% of the cost whichever is less	✓			
4.	Plant protection					
	Plant protection chemicals and bio-pesticides/IPM	Rs.500/- per ha or 50% of the cost, whichever is less	✓	✓	✓	
	Weedicides	Rs.500/- per ha or 50% of the cost whichever is less	✓	✓	✓	
5.	Micro-nutrients and Soil ameliorants					
	Gypsum / phosphogypsum / bentonite sulphur	50% of the cost of material limited to Rs.750/- per ha		✓	✓	

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Sl. No.	Name of Interventions	Pattern of Assistance	Crops in which admissible			
			Rice	Wheat	Pulses	Course Cereals
	Micronutrients	50% of the cost limited to Rs.500/- per ha	✓	✓	✓	
	Bio-fertilizers (Rhyzobium / PSB)	50% of the cost limited to Rs.100/- per ha under NFSM			✓	
	Lime / liming materials	50% of the cost material limited to Rs.1000/- per ha	✓		✓	
6.	Local initiatives	Funding will be on Project basis, up to 5% of the total allocation to the State.	✓	✓	✓	✓
7.	Project Management Team		✓	✓	✓	✓

Components and Pattern of Assistance under National Mission on Oilseeds & Oil Palm is presented in the table below.

MM I:

Sl. No.	Components	Financial Assistance
I	Seed component	
1	Purchase of breeder seed	Full cost of Breeder seeds for Central Agencies & States.
2	Production of Foundation seed	Rs.1000/quintal (for varieties / hybrids last 10 years)
3	Production of Certified seed	Rs.1000/quintal additional for varieties / hybrids of last 5 years. (75% to farmers, 25% to Agencies)
4	Distribution of Certified seed	Rs.2500/quintal for varieties (except Sesame) to Rs.5000/quintal for hybrids and variety of Sesame. 75% to farmers, 25% CA
5	Distribution of Seed Minikit	Free of cost to farmers through CA & State
6	Seed infrastructure Development	Max. 1% of total outlay of MM I for Agencies.
7	Variety Specific Targeted Seed Production (VSTSP)	75% cost of seed production (varieties of < 5 years) for agencies & states.
II	Production Inputs component	
1	Distribution of Plant Protection Equipments	Manual sprayers, Knapsack/foot operated prayers/eco-friendly light trap: Rs.600/-. Additional 10% assistance max. Rs.800/- per unit to SC/ST/SMF/Women/FPOs/NE States. Power sprayers, Knapsack: Rs.3000/- (Below 16 lit) to Rs.8000/- (above 16 lit) per equipment depending upon capacity Additional 10% assistance max. Rs.3800/- to Rs.10000/- per unit to SC/ST/SMF/Women/FPOs/NE States.
2	Plant Protection chemicals / bio-pesticides / bio-agents / micronutrients	50% of cost limited to Rs.500/- per ha.
3	Supply of gypsum / pyrite / liming / dolomite / SSP	50% of cost + transportation, Max. Rs.750/- per ha.
4	Supply of Nuclear Polyhedrosis Virus (NPV)	50% of the cost, Max. Rs.500/- per ha.
5	Supply of Rhyzobium / PSB / ZSB / Azatobacter / Mycorrhiza	50% subsidy, Max. Rs.300/- per ha.

Sl. No.	Components	Financial Assistance
6	Supply of improved farm implements	Manually / Bullock drawn Rs.8000/- per implement. Additional 10% assistance, max. Rs.10000/- per unit to SC/ST/SMF/Women/NE States. Tractor driven (Rotavator, seed drill, zero till seed drill, multi crop planter, zero till multi crop planter, ridge furrow planter, power weeder, raised bed planter, groundnut digger, multi crop thresher @ 40% of cost limited to Rs.50000/- per unit. Additional 10% assistance, max. Rs.63000/- per unit to SC/ST/SMF/Women/NE States.
7	Distribution of sprinkler sets	As per National Mission for Sustainable Agriculture (NMSA).
8	Pipes for carrying water from source to the field (to be implemented from 2016-17 onwards)	Rs.50/- per mt (HDPE Pipes), Rs.35/- per mt (PVC Pipes) & Rs.20/- mt (HDPE laminated woven lay flat tubes) with max. Rs.15000/- per farmer.
9	Seed storage bins	Rs.1000/- per bin of 1 to 10 qtls capacity. One bin per farmer.
10	Seed treating Drum	Rs.1750/- (of 20 kg) & Rs.2000/- (of 40 kg) per unit
III.	Transfer of Technology component	
1	Block demonstrations	50% of the cost of the inputs, One demo one ha per farmer, Assistance for Groundnut – Rs.7500/-. Soybean Rs.4500/-, Mustard, Sesame, Safflower, Caster, Niger, Linseed – Rs.3000/-. Sunflower – Rs.4000/- per ha.
2	Block demonstrations on Poly-mulch in Groundnut	Rs.11500/- per ha.
3	Frontline demonstrations (FLDs)	50% of cost of the inputs (1 demo. 1 ha/farmer), max. – Groundnut – Rs.8500/-; Soybean, Mustard, Sunflower – Rs.6000/- Sesame, Safflower, Caster, Niger & Linseed Rs.5000/- per ha.
4	Frontline demonstrations on Poly-mulch in Groundnut by ICAR	Rs.12500/- per ha.
5	Integrated Pest Management (IPM)FFS	Farmers field school @ Rs.26700/- per FFS.
6	Farmers training	Rs.24000/- per training (batch of 30 farmers for 2 days).
7	Officers / Extension workers training	Rs.36000/- per training (batch of 20 officers for 2 days).
8	Local Initiatives, Contingency	The States will be allowed to utilise 1.0% of their total allocation under MM-I on Oilseeds.

Components & Pattern of Assistance under Mini Mission – III on TBOs**MM III:**

Sl. No.	Components							
1	Integrated development of nurseries & plantation							
	Name of TBOs	Plant density per ha	Gestation period (Yr)	Assistance (Rs. per ha)	Name of TBOs	Plant density per ha	Gestation period (Yr)	Assistance (Rs. per ha)
	Simarouba	500	5	24,000	Jatropha	2500	2	41,000
	Neem	400	5	17,000	Cheura	250	6	14,000
	Jojoba	2500	4	35,000	Kokum	250	6	15,000
	Karanja	500	4	20,000	Tung	500	4	21,000

Sl. No.	Components							
1	Integrated development of nurseries & plantation							
	Mahua	200	8	15,000	Olive	200	4	48,000
	Wild Apricot	400	4	16,000				
2	Maintenance of plantation during gestation period							
	Jojoba, Jatropha and Olive					Rs.3,200 per ha / year		
	Other TBOs					Rs.2,000 per ha / year		
3	Incentive for undertaking intercrops up to gestation period							
	All above TBOs					Rs.1,000 per ha / year		
4	Distribution of pre-processing, processing and oil extraction equipments							
4.1	For Neem, Jatropha, Karanja and Tung developed by IIT, Delhi							
	Neem Depulper (Manual) – 20kg/hr capacity					Rs.12,000/-		
	Karanja Decorticator (Manual) – 50kg/hr capacity					Rs.30,000/-		
	Tung Decorticator – 40kg/hr capacity					Rs.30,000/-		
	Jatropha Decorticator (Manual) 40kg/hr capacity					Rs.15,000/-		
	Neem Decorticator (Mechanical with 2 HP motor) – 100kg/hr capacity					Rs.24,000/-		
4.2	For Jojoba, Mahua & Wild Apricot developed by OTRI, Anantpur (A.P.)							
	Jojoba Seed Dehuller – 60kg/hr capacity					Rs.15,000/-		
	Mahua Seed Decorticator – 50kg/hr capacity					Rs.15,000/-		
	Wild Apricot Decorticator – 45kg/hr capacity					Rs.15,000/-		
4.3	For other TBOs							
	Depulper – 20kg/hr capacity					Rs.12,000/-		
	Decorticator – 40kg/hr capacity					Rs.15,000/-		
	Dehuller – 50kg/hr capacity					Rs.15,000/-		
	Drier – 40kg/hr capacity					Rs.15,000/-		
	Cleaner / Grader – 100kg/hr capacity					Rs.9,000/-		
4.4	Installation of Oil Expeller for above TBOs							
	Oil Expeller – 1 Tonne/day capacity					Rs.60,000/-		
5	Transfer of Technology							
5.1	Training of Farmers (batch of 30 farmers/day for 2 days)					Rs.24,000/-		
5.2	Training of Extension Official/Workers (batch of 20 participants/day for 2 days)					Rs.36,000/-		

Components and Pattern of Assistance under NFSM: Commercial Crops

NFSM: CC: Cotton

Sl. No.	Component	Unit cost (Rs.)	Implementing agency
1.	Insecticide Resistant Management (IRM)	Rs.4.5 lakh / district + Administrative cost	CICR, Nagpur
2.	Online Pest Monitoring and Advisory Services (OPMAS)	Rs.4.5 lakh / district + Administrative cost	NCIPM, New Delhi
3.	(a) Front Line Demonstration on Integrated Crop Management (ICM)	Rs.7000/ha (Rs.6000 for inputs & Rs.1000 for Contingency)	SDA / ICAR / SAUs / KVKs / NGOs / Cooperatives
	(b) Front Line Demonstration on Deshi and ELS cotton / ELS Cotton Seed Production.	Rs.8000/ha (Rs.7000 for inputs & Rs.1000 for Contingency)	ICAR / SAUs / KVKs / NGOs / Cooperatives / State Department of Agriculture

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Sl. No.	Component	Unit cost (Rs.)	Implementing agency
	(c) Front Line Demonstration on Intercropping.	Rs.7000/ha (Rs.6000 for inputs & Rs.1000 for Contingency)	ICAR / SAUs / KVKs / NGOs / Cooperatives / State Department of Agriculture
4.	Trials on High Density Planting System.	Rs.9000/ha (Rs.8000 for inputs & Rs.1000 for Contingency)	ICAR / SAUs / KVKs / NGOs / Cooperatives / State Department of Agriculture
5.	Contingencies & Electronic Print Media.	Need based	DCD, Nagpur

NFSM: CC: Sugarcane

Sl. No.	Component	Unit cost (Rs.)	Implementing agency
1.	Demonstration on intercropping and single bud chip technology with Sugarcane.	Rs.8000/ha (Rs.7000 for inputs & Rs.1000 for Contingency)	ICAR / SAUs / KVKs / NGOs / Cooperatives / State Department of Agriculture
2.	Assistance for Breeder Seed Production.	Rs.40000/ha (Rs.34000 for inputs & Rs.6000 for Contingency)	SAUs / ICAR and Sugarcane Research Institute
3.	Production of tissue culture raised plantlets / seedlings.	Rs.3.5 per seedlings	Sugarcane Research Institutions, Sugar Factories, NGOs
4.	Strengthening / establishment of bio agent and tissue culture laboratory.	50% of cost limited to Rs.75 lakhs / laboratory	Sugar Factories / SAUs / ICAR / Sugarcane Research Institute etc.
5.	National Level Trainings (25 Participants x 2 days)	Rs.50000 per Training	IISR, SBI, VSI, UPCR, etc.
	State Level Trainings (20 Participants x 2 days)	Rs.40000 per Training	State Government KVKs / SAUs / NGOs etc.
6.	Contingencies & Electronic Print Media	Need based	DSD, Lucknow